

## **RAW SEQUENCE LISTING**

**The Biotechnology Systems Branch of the Scientific and Technical  
Information Center (STIC) no errors detected.**

Application Serial Number: 10/518,868  
Source: PCT  
Date Processed by STIC: 1-10-05

***ENTERED***



PCT

**RAW SEQUENCE LISTING**  
**PATENT APPLICATION:** US/10/518,868

**DATE:** 01/10/2005  
**TIME:** 15:32:51

**Input Set :** A:\Xenon 140.txt  
**Output Set:** N:\CRF4\01102005\J518868.raw

```

4 <110> APPLICANT: Xenon Genetics, Inc.
5      Warner-Lambert Company, LLC
7 <120> TITLE OF INVENTION: Novel Therapeutic Target for Treating Vascular Diseases,
8      Dyslipidemias and Related Disorders
10 <130> FILE REFERENCE: 760050-100
C--> 12 <140> CURRENT APPLICATION NUMBER: US/10/518,868
C--> 13 <141> CURRENT FILING DATE: 2004-12-17
15 <150> PRIOR APPLICATION NUMBER: US/60/391,878
16 <151> PRIOR FILING DATE: 2002-06-27
18 <160> NUMBER OF SEQ ID NOS: 32
20 <170> SOFTWARE: PatentIn Version 3.0
22 <210> SEQ ID NO: 1
23 <211> LENGTH: 501
24 <212> TYPE: DNA
25 <213> ORGANISM: Homo sapiens
27 <400> SEQUENCE: 1
28 agtagctctc ctgataaaag accaccaacc atgggctagg tctggccagt ttacagaaaag 60
29 cacacactgt gtgcctttat gtcctagaaa gatctttga tatacaggac ctaaatggaa 120
30 tacattccac cccaaaataa acatgggtca tacatgcata tttattcaat acacatatgt 180
31 caggaccatc ttcataaata ttcatagctc ctcctataat ctgttaaata tgtgtgtgtg 240
32 tgcgtgtgtg tgtgtgtgtg tgtgtgtgtg tatagtttgt ttgttttgag agggagtctt 300
33 gctctgtgc ccaggctgga gtgcagcagt gcaatctcaa ctcactataa cttccacctc 360
34 caggttcaag caattctcat gtctcagccg agtagctggg accacagtc catgccacca 420
35 ctcttggcta attttttttt ttttttttg agacggagtc tcgctctgtc acccaggcta 480
36 gagtgcagtg gcgcgatctt g 501
39 <210> SEQ ID NO: 2
40 <211> LENGTH: 600
41 <212> TYPE: DNA
42 <213> ORGANISM: Homo sapiens
44 <400> SEQUENCE: 2
45 gctgctgcct ggatgaacct caagtgttcc ttctcctgtt ccctgctaca tcttagattt 60
46 tacagtgtgt cttggctaa aggccgcctg ggcacactgc agtgcctgg tgtaacggac 120
47 agccatgggc cttgcacttg aactagggtc tggccccagg actgtgacat gtcaccctg 180
48 agccccgggt tctccctctga gaaatgtgg ggtcacctgc tttgagggtc gttcttagta 240
49 tgaaggcaaga gcacagtaag aaaaaagact acagagccga cacacacaca cacacacaca 300
50 cacacacaca cacacacaca cagagtatgt cattccagaa caatataactc atttcatttt 360
51 cctgttgtca ttcaagagagg cgagtgcact gggagccaca aaagtgcata gttcaaaaga 420
52 cttttccaaa acaggatgcg taatggctgc tgtgcccact gctggcggtg tgtggggata 480
53 cctgggttagc agcaggccac cagagagtgt gcatccctcc ttctgtgctc tgcaagtgggg 540
54 ctcatttttc tgggcaggt tcttgctgc ctgcataatctt cctctgtatga cggagttacc 600
57 <210> SEQ ID NO: 3
58 <211> LENGTH: 4333
59 <212> TYPE: DNA

```

**RAW SEQUENCE LISTING**  
**PATENT APPLICATION: US/10/518,868**

**DATE: 01/10/2005**  
**TIME: 15:32:51**

**Input Set : A:\Xenon 140.txt**  
**Output Set: N:\CRF4\01102005\J518868.raw**

60 <213> ORGANISM: Homo sapiens	
62 <400> SEQUENCE: 3	
63 atgtccttcc ggggccacgc agaaaagtgcc gcccgtttgg ccactcagag cccccgggccc	60
64 gcggtcgctg tacgcctgaa ggccgggtcggt gcccggcc gctctagtc ctgcctccgc	120
65 tcaggccggt cctccggggc ttctcaatgg tttccgggt gcctctcaat ggtttcccg	180
66 gccggcccttg cgccgacgccc aggagacttc cggagcttgg tgacgtcacg agcgagctt	240
67 tctacccaaa tacgcggcgg gggaataggc tcgagggcgg tgagcagtga caattgctag	300
68 gccggagacag tgcagggaaag agagaccta gaaaggatca ggactggcgg gaggtattta	360
69 actgaaagga atatctgctt cactgttgc accaaaccag atgccttctt ccacttcacc	420
70 agaccaagga gatgacctgg agaactgcat tttaagattt tctgacctgg atttaaaaaga	480
71 tatgagtctt attaatccca gcagcagtct taaagcagaa ttagatggca gtacaaaaaa	540
72 gaaatactcg tttgcaaaga aaaaggcctt tgccctttt gtcaaaaacca aagaagttcc	600
73 aacaaaaagg agtttgaat gtaaagaaaa atttgtggaa tgctgtcgcc agctattcac	660
74 agaccaaacc agcatccata gacatgtggc aacacaacat gctgatggaa ttatcacca	720
75 gacagcttctt attttaaagc aactggctgt gacattggc acctcaaaaga gtcttcgtc	780
76 tgcagatgaa aagaaccctt taaaagagtg cctccacat agccatgacg tgtctgcttg	840
77 gctccctgtat ataagctgt ttaaccctga tgagctgata agtggccagg gcagtgaaga	900
78 aggggaggtg ctccttatt actgctacca tgacctggag gatccccaaat ggtctgtgc	960
79 ctggcagaca gctctgtgc agcacctgca ctcacaggc aagattcgaa ttgctgcaga	1020
80 aggaatcaat gggacagttg gtggaaagcaa attgctacc agactttatg tggaaagtcat	1080
81 gctttccttc ccattgttta aggtgaccc gtgtaaagat gatTTTaaAGA ccagcaaagg	1140
82 aggagctcac tggttccag aattgcgtgt tggtgttattt gaagaaatcg tgcccatggg	1200
83 gatcagcccc aaaaagatct ctcacaagaa gcctggaatc catttatccc caggtgaatt	1260
84 tcataaaagaa gtagaaaagt ttttatctca ggcaaatcaa gaacaaagtg atactatcct	1320
85 tcttgattgc agaaaacttct atgaaagcaa aataggacga ttccaaggct gcttagcccc	1380
86 agacatcagg aaattcagtt acttccctag ctacgttgc aaaaatctag aactttcag	1440
87 agagaagaga gtgctgatgt actgtaccgg gggcatccgc tttgagccgg gttcagccta	1500
88 cctccaaagcc aaggggagtgt gcaaggaggt gttccagctc aagggtggca tccacaagta	1560
89 ccttggaaagag ttccctgtat gcttttacaa agggaaagttt tttgttttg atgaacgcta	1620
90 tgctctgtcc tacaacagtgc atgtgggtgc agagtgttca tactgtggag cccgtggga	1680
91 ccagtataaa ctctgtcta ctcccccagtgc ccgcagctc gttttgaccc gcccgtccgt	1740
92 tcaaggacaa ggattcacag cctgttgcgtt cacatgtcaa gacaaggggaa gcaggaaagt	1800
93 ttccaggccct atgcaagaca gctttaaaga ggaatgcgag tgcacagcccc gacggccacg	1860
94 catacctagg gaactttgc agcatgtgcg acaggctgtg agcccagagc caggccctga	1920
95 tgctgatgag gatggccag tgcttgcgtt agcagcaccc ttggcatttt cccaggccct	1980
96 cggtaaaagt aggtttgggg tgactataca gagaagcat ggcaagactg cagaaacaga	2040
97 gaaatcggga acttcagttc tggccgtgc caccgtggca gccgtctaca cttcacagcg	2100
98 ggaggggagg agtcacgttg tctaccaccc acctggagaca ttctgattt gatgatgta	2160
99 gacacagaa aataggtgag ctgcacatggc tcccaaagct gctgaggat agagcctgag	2220
100 cctgggtggcc acagcatatgc cccttcgtt tccatgcagc tggggctgtt agtagtcatt	2280
101 gcccttgctca gcagacccatc taccctgtgc gcaaacacat gaaagctgtg gcccgtggag	2340
102 tggcctccat aaacaagccca cttaggtcat ctgcctatcta cccttaaccc ctgtctctcg	2400
103 cctgagggga atctgcacgc tttgttgcgtt gcttacccctc tgctttgtt gaaataacca	2460
104 tcttttggta tacatggagg atagttccag aacgcctgag tataaaaaaa cccaatgcat	2520
105 actcaagttcc cacagtgggc ctcacagaac ccacgtatgt gataaaatcg ccctccatgt	2580
106 acgcaggtt cggccctgc caataactgtt tttcaaccc gtatgggtga aaaaaatccaa	2640
107 tatataagtg cagccatgca gttcaaccc atattgttca agggtaact gtatagttt	2700
108 ttgaacagcc acacccatcc ctttacacat gatctatggc agagttgaat agttgcaaca	2760
109 gacactatgt ggcctgcaaa atcgaaatt ttactgtct ggcctttac aaaaaagttt	2820

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/10/518,868

DATE: 01/10/2005  
TIME: 15:32:51

Input Set : A:\Xenon 140.txt  
Output Set: N:\CRF4\01102005\J518868.raw

110	gccagcccc	gatcttagacc	agcagctcat	ctgatagagg	cagagggtggc	cttaaagatg	2880
111	tggccttctt	cattttctgt	tggtttggtt	tcgtttctat	gagagatttc	ctctgatagc	2940
112	tctgccttcc	ccagcaccta	ctctctgagc	ttttaaatgt	tctctctggg	agcttcata	3000
113	aagctcggt	acatttgagc	cacagtttt	agatcagcac	ctggaataca	tgacacat	3060
114	ttactgaggt	catccagcac	tgccatggtg	gctgcccagt	cttctggcca	gtgtgccagg	3120
115	cacatgtccc	tgtcacacag	gttccaagaa	acacatacgc	agccatgcat	agaccaacag	3180
116	attnaatatt	atattgcagt	tttcagcgat	gcagaatgca	gctgcaattg	tgttttaagg	3240
117	agaagccaaa	tggggatggt	tgtccctgca	acatggtgc	actcctggc	catgtgcagc	3300
118	ctcagtggac	actcttccat	agcgctgagg	ccctggcccc	gcctccagtt	acctctgtact	3360
119	gcccactgcc	ttacagttca	gtgcgcaggc	cttcacctt	tcatcaccag	cctctctgct	3420
120	cagtgcctg	gagtcttga	ccttgcctt	tatcatgaga	tttgctgaaa	tcactaatga	3480
121	aaataactcc	caaaagcaac	aaacaaaaat	attagttaa	ctggcactgt	ggtatattaa	3540
122	aaggcacaag	ggcattgtgg	cttaacactt	ttgctggatc	ccaagagacg	cacatgatgt	3600
123	taaaaagaga	tctggcagca	gtactaatac	tacatttcag	tgtatcatc	ttgggggtgg	3660
124	ttggccagga	tttcccaatt	ccttgatatac	tggagttct	tcaccattgt	ccggcattcct	3720
125	gcggaggctt	aatatacagg	cgtaaaggta	gcagcaattt	gtctaataag	tgtgagatc	3780
126	agtagctgaa	gtctctaagc	tggccatta	ctaaatacca	tagccatgtt	gatctggaaa	3840
127	tttatccctc	tagtgtctt	cctcacataa	gccatttgcc	cactgtgcaa	tatagaaagg	3900
128	tgtttcaaa	agtatttggc	cgtagattt	catatccatc	ataagggtgg	cattcaataa	3960
129	gaaaaaagtt	ctaactccag	tattaaattt	tacataaattc	ccaaatgttc	ttaaagaaca	4020
130	ctcagggaca	tgttgttgc	ctgggatgg	taatgaaagg	ttggttttt	aaacttgaaa	4080
131	tttcaccatt	ggttttttc	ctatcattc	tgcataatcca	gcaaaaggaa	tctcatgttg	4140
132	actcctggca	gagttcagt	gtttcagtt	gtctatctgt	tctgagggga	aaattgtgtt	4200
133	ctggatccag	taatcaattt	ggcaactta	atcgaggttt	tcaaaattcc	aaggagggtt	4260
134	aataaaagaat	gataatcagt	tttatttgct	aatagctaag	acaaatttgt	aataaaagtgt	4320
135	tttataat	ttc					4333

138 <210> SEQ ID NO: 4

139 <211> LENGTH: 516

140 <212> TYPE: PRT

141 <213> ORGANISM: Homo sapiens

143 <400> SEQUENCE: 4

144	Met	Pro	Ser	Ser	Thr	Ser	Pro	Asp	Gln	Gly	Asp	Asp	Leu	Glu	Asn	Cys
145	1						5			10				15		
147	Ile	Leu	Arg	Phe	Ser	Asp	Leu	Asp	Leu	Lys	Asp	Met	Ser	Leu	Ile	Asn
148							20			25				30		
150	Pro	Ser	Ser	Ser	Leu	Lys	Ala	Glu	Leu	Asp	Gly	Ser	Thr	Lys	Lys	Lys
151							35			40				45		
153	Tyr	Ser	Phe	Ala	Lys	Lys	Ala	Phe	Ala	Leu	Phe	Val	Lys	Thr	Lys	
154							50			55				60		
156	Glu	Val	Pro	Thr	Lys	Arg	Ser	Phe	Glu	Cys	Lys	Glu	Lys	Leu	Trp	Lys
157							65			70				75		80
159	Cys	Cys	Arg	Gln	Leu	Phe	Thr	Asp	Gln	Thr	Ser	Ile	His	Arg	His	Val
160							85			90				95		
162	Ala	Thr	Gln	His	Ala	Asp	Glu	Ile	Tyr	His	Gln	Thr	Ala	Ser	Ile	Leu
163							100			105				110		
165	Lys	Gln	Leu	Ala	Val	Thr	Leu	Ser	Thr	Ser	Lys	Ser	Leu	Ser	Ser	Ala
166							115			120				125		
168	Asp	Glu	Lys	Asn	Pro	Leu	Lys	Glu	Cys	Leu	Pro	His	Ser	His	Asp	Val
169							130			135				140		

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/10/518,868

DATE: 01/10/2005  
TIME: 15:32:51

Input Set : A:\Xenon 140.txt  
Output Set: N:\CRF4\01102005\J518868.raw

171 Ser Ala Trp Leu Pro Asp Ile Ser Cys Phe Asn Pro Asp Glu Leu Ile  
 172 145 150 155 160  
 174 Ser Gly Gln Gly Ser Glu Glu Gly Glu Val Leu Leu Tyr Tyr Cys Tyr  
 175 165 170 175  
 177 His Asp Leu Glu Asp Pro Gln Trp Ile Cys Ala Trp Gln Thr Ala Leu  
 178 180 185 190  
 180 Cys Gln His Leu His Leu Thr Gly Lys Ile Arg Ile Ala Ala Glu Gly  
 181 195 200 205  
 183 Ile Asn Gly Thr Val Gly Gly Ser Lys Leu Ala Thr Arg Leu Tyr Val  
 184 210 215 220  
 186 Glu Val Met Leu Ser Phe Pro Leu Phe Lys Asp Asp Leu Cys Lys Asp  
 187 225 230 235 240  
 189 Asp Phe Lys Thr Ser Lys Gly Gly Ala His Cys Phe Pro Glu Leu Arg  
 190 245 250 255  
 192 Val Gly Val Phe Glu Glu Ile Val Pro Met Gly Ile Ser Pro Lys Lys  
 193 260 265 270  
 195 Ile Ser Tyr Lys Lys Pro Gly Ile His Leu Ser Pro Gly Glu Phe His  
 196 275 280 285  
 198 Lys Glu Val Glu Lys Phe Leu Ser Gln Ala Asn Gln Glu Gln Ser Asp  
 199 290 295 300  
 201 Thr Ile Leu Leu Asp Cys Arg Asn Phe Tyr Glu Ser Lys Ile Gly Arg  
 202 305 310 315 320  
 204 Phe Gln Gly Cys Leu Ala Pro Asp Ile Arg Lys Phe Ser Tyr Phe Pro  
 205 325 330 335  
 207 Ser Tyr Val Asp Lys Asn Leu Glu Leu Phe Arg Glu Lys Arg Val Leu  
 208 340 345 350  
 210 Met Tyr Cys Thr Gly Gly Ile Arg Cys Glu Arg Gly Ser Ala Tyr Leu  
 211 355 360 365  
 213 Lys Ala Lys Gly Val Cys Lys Glu Val Phe Gln Leu Lys Gly Gly Ile  
 214 370 375 380  
 216 His Lys Tyr Leu Glu Glu Phe Pro Asp Gly Phe Tyr Lys Gly Lys Leu  
 217 385 390 395 400  
 219 Phe Val Phe Asp Glu Arg Tyr Ala Leu Ser Tyr Asn Ser Asp Val Val  
 220 405 410 415  
 222 Ser Glu Cys Ser Tyr Cys Gly Ala Arg Trp Asp Gln Tyr Lys Leu Cys  
 223 420 425 430  
 225 Ser Thr Pro Gln Cys Arg Gln Leu Val Leu Thr Cys Pro Ala Cys Gln  
 226 435 440 445  
 228 Gly Gln Gly Phe Thr Ala Cys Cys Val Thr Cys Gln Asp Lys Gly Ser  
 229 450 455 460  
 231 Arg Lys Val Ser Gly Pro Met Gln Asp Ser Phe Lys Glu Glu Cys Glu  
 232 465 470 475 480  
 234 Cys Thr Ala Arg Arg Pro Arg Ile Pro Arg Glu Leu Leu Gln His Val  
 235 485 490 495  
 237 Arg Gln Pro Val Ser Pro Glu Pro Gly Pro Asp Ala Asp Glu Asp Gly  
 238 500 505 510  
 240 Pro Val Leu Met  
 241 515  
 244 <210> SEQ ID NO: 5

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/10/518,868

DATE: 01/10/2005  
TIME: 15:32:51

Input Set : A:\Xenon 140.txt  
Output Set: N:\CRF4\01102005\J518868.raw

245 <211> LENGTH: 526  
 246 <212> TYPE: PRT  
 247 <213> ORGANISM: Mus musculus  
 249 <400> SEQUENCE: 5  
 250 Met Pro Ser Ser Thr Ser Pro Asp Glu Glu Asp Gly Leu Glu Thr Cys  
 251 1 5 10 15  
 253 Val Leu Lys Val Phe Asp Leu Asp Leu Lys Glu Ser Asn Leu Val Asn  
 254 20 25 30  
 256 Pro Ser Asn Ser Leu Lys Ala Glu Leu Asp Gly Ser Thr Lys Lys Lys  
 257 35 40 45  
 259 Tyr Ser Phe Ala Lys Lys Ala Phe Ala Leu Leu Val Lys Thr Lys  
 260 50 55 60  
 262 Gln Val Pro Ala Pro Ser Tyr Glu Phe Lys Gly Lys Arg Trp Arg Cys  
 263 65 70 75 80  
 265 Cys Gln Gln Leu Phe Ala Asp Gln Ile Ser Ile His Arg His Val Ala  
 266 85 90 95  
 268 Thr Gln His Ala Glu Asp Val Tyr Gln Gln Thr Ala Ser Leu Leu Lys  
 269 100 105 110  
 271 Gln Leu Thr Ala Ala Leu Ser Ala Ser Gln Ser Leu Thr Pro Thr Asp  
 272 115 120 125  
 274 Lys Arg Ser Ser Pro Lys Asp Cys Leu Thr Pro Ser Gln Glu Val Ser  
 275 130 135 140  
 277 Ala Trp Leu Pro Asp Val Ser His Val Ser Pro Gln Glu Leu Arg Ser  
 278 145 150 155 160  
 280 Gly Gln Val Thr Glu Glu Arg Glu Val Leu Leu Tyr Tyr Cys Tyr Cys  
 281 165 170 175  
 283 Asp Leu Glu Asp Pro His Trp Val Cys Ala Trp Gln Thr Ala Leu Cys  
 284 180 185 190  
 286 His His Leu His Leu Thr Gly Lys Ile Arg Ile Ala Thr Glu Gly Ile  
 287 195 200 205  
 289 Asn Gly Thr Val Gly Gly Ser Lys Val Ala Thr Arg Leu Tyr Val Glu  
 290 210 215 220  
 292 Val Met Leu Ser Cys Pro Leu Phe Lys Asp Tyr Leu Ser Glu Asp Asp  
 293 225 230 235 240  
 295 Phe Lys Ser Ser Lys Gly Gly Ser His Cys Phe Pro Glu Leu Arg Val  
 296 245 250 255  
 298 Gly Val Phe Glu Glu Ile Val Pro Met Gly Ile Ser Pro Ser Gln Val  
 299 260 265 270  
 301 Ser Tyr Lys Lys Pro Gly Ile His Leu Ser Pro Gly Glu Phe His Lys  
 302 275 280 285  
 304 Glu Ile Glu Lys Leu Leu Ser Gln Ser Ser Glu Glu Gln Gly Asn Thr  
 305 290 295 300  
 307 Ile Ile Leu Asp Cys Arg Asn Phe Tyr Glu Ser Lys Ile Gly Arg Phe  
 308 305 310 315 320  
 310 Gln Gly Cys Leu Ala Pro Asp Ile Arg Lys Phe Ser Tyr Phe Pro Ser  
 311 325 330 335  
 313 Tyr Val Asp Lys Asn Leu Asp Ile Phe Arg Gln Lys Arg Val Leu Met  
 314 340 345 350  
 316 Tyr Cys Thr Gly Gly Ile Arg Cys Glu Arg Gly Ser Ala Tyr Leu Arg

**VERIFICATION SUMMARY**  
PATENT APPLICATION: US/10/518,868

DATE: 01/10/2005  
TIME: 15:32:52

Input Set : A:\Xenon 140.txt  
Output Set: N:\CRF4\01102005\J518868.raw

L:12 M:270 C: Current Application Number differs, Replaced Current Application Number  
L:13 M:271 C: Current Filing Date differs, Replaced Current Filing Date